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DEFINITION FILE FOR ACL EDITOR COMPILATION

Version 'V04-000'

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FACILITY: Miscellaneous utilities

ABSTRACT:

These are the data stucture definitions and random macros used to compile the ACL editor.

ENVIRONMENT:

VAX/VMS operating system, user mode utilities.

A11714

AUTHOR: L. Mark Pilant CREATION DATE: 7-Jul-1982 10:10

MODIFIED BY:

V03-009 LMP0270 L. Mark Pilant, 29-Jun-1984 8:51 Add definition for the control-C abort message.

V03-008 LMP0213 L. Mark Pilant, 24-Mar-1984 12:23 Add support for locking and unlocking the object's ACL.

- V03-007 LMP0193 L. Mark Pilant. 14-Feb-1984 12:44 Move the journal and recovery file RMS structures to the common storage as they are referenced from multiple modules.
- V03-006 LMP0181 L. Mark Pilant, 17-Jan-1984 10:02 Add support for the \$CHANGE_ACL system service instead of direct ACP calls.
- V03-005 LMP0172 L. Mark Pilant, 28-Nov-1983 12:11 Numerous bug fixes, support for VT2xx terminals, and a session keystroke logger.
- V03-004 LMP0138 L. Mark Pilant, 17-Aug-1983 8:59 Misc fixes to prompt mode to cure ACCVIOs.
- V03-003 LMP0124 L. Mark Pilant, 22-Jun-1983 11:37 Change OWNER access definition to CONTROL.
- V03-002 LMP0103 L. Mark Pilant, 20-Apr-1983 10:23 Add support for the HIDDEN and PROTECTED ACE flag bits.
- V03-001 LMP0074 L. Mark Pilant, 20-Jan-1983 12:02 Add support for modifying the RMS journal bits if the curresponding ACE is added or deleted.

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ACLEDIDEF . REQ: 1
! Local definition files.
REQUIRE 'LIBS: AEDLCLDEF';
! Declare VAX built in functions.
BUILTIN
          INSQUE,
          REMQUE:
! Macros to allocate and deallocate dynamic memory.
MACRO
          ALLOCATE (SIZE, ADDRESS) =
                    BEGIN
                                                  LIBSGET_VM : ADDRESSING_MODE (GENERAL);
                    EXTERNAL ROUTINE
                    LOCAL VM_STATUS;
VM_STATUS = LIBSGET_VM (%REF (SIZE), ADDRESS);
IF .VM_STATUS THEN CHSFILL (0, SIZE, .ADDRESS);
                    .VM_STXTUS
                    END
          DEALLOCATE (SIZE, ADDRESS) =
                    BEGIN
                    EXTERNAL ROUTINE
                                                  LIB$GET_VM : ADDRESSING_MODE (GENERAL);
                    LIBSFREE_VM (%REF (SIZE), ADDRESS);
                    END
! Macro to signal an error and save the worst case error condition.
MACRO
          SIGNAL (ARG) =
                    BEGIN
                    EXTERNAL ROUTINE
                                                  LIBSSIGNAL : ADDRESSING_MODE (GENERAL);
                    IF .AED_L_FLAGS[AED_V_SCOPE]
                    THEN
                         BEGIN
                         SCRSERASE PAGE (21, 1);
SCRSSET_CURSOR (21, 1);
                         END:
                    LIBSSIGNAL (ARG_XIF XLENGTH-1 GTR O XTHEN, XREMAINING XFI);
                    IF .AED L FLAGS[AED V SCOPE]
THEN SCRSSET CURSOR (TAED B LINE, AED B COLUMN);
IF (ARG AND STSSM SEVERITY) NEQ STSSK WARNING
AND (.AED L WORSTERR AND STSSM SEVERITY) LSS
                         (ARG AND STS$M_SEVERITY) THEN AED_L_WORSTERR = ARG;
! Shared message definitions.
                    (AED, 277, LOCAL, (OPENIN, ERROR),
SSHR_MSGDEF
                    (CLOSEIN, ERROR).
```

ACLEDTDEF.REQ;1

(READERR, ERROR),
(WRITEERR, ERROR)
);

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ACLEDIDEF.REQ:1
! Define common storage structure.
PSECT
                         OWN=AED_COMMON(OVERLAY,ADDRESSING_MODE(WORD_RELATIVE),ALIGN(0));
OUN
                        AED_L_FLAGS : $BBLOCK [4],
AED_B_OPTIONS : $BBLOCK [1],
AED_L_OBJTYP,
AED_Q_OBJNAM : $BBLOCK [DCC$C_S_
AED_L_WORSTERR,
AED_L_PAGEWIDTH,
AED_L_PAGESIZE,
AED_B_COLUMN : VECTOR [1,BYTE],
AED_B_SAVE_COL : VECTOR [1,BYTE],
AED_B_SAVE_LIN : VECTOR [1,BYTE],
AED_B_SAVE_LIN : VECTOR [1,BYTE],
AED_Q_LINETABLE : $BBLOCK [12],
                                                                                                                                                                   Useful flags
Qualifier option flags
Target object type code
                                                                               : $BBLOCK [DCC$C_S_BLN],
                                                                                                                                                                                          ! Object name descr
                                                                                                                                                                    Worst error encountered
                                                                                                                                                                    Device line width
Number of lines on the page
                                                                                                                                                                     Current column position
                                                                                                                                                                     Current line position
                                                                                                                                                                     Last set column position
                                                                                                                                                                     Last set line position
                                                                                                                                                                     Input line queue head
                                                                                                                                                                     Note: Extra longword is
                                                                                                                                                                    necessary because of the way
                                                                                                                                                                     the string search loop is
                      AED_L_CURACE
AED_L_FIRSTLINE
AED_L_BEGINLINE
AED_L_BEGINLINE
AED_W_INPUTLEN
AED_Q_DEL_ACE
AED_Q_DEL_LINE
AED_Q_DEL_WORD
AED_B_DEL_CHAR
AED_A_ACLBUFFER
AED_W_OBJCHAN
AED_W_TERMOUT
AED_W_TERMOUT
AED_W_IOSB
AED_L_STATUS,
AED_B_FIELD
AED_W_FIELDBEG
AED_W_FIELDBEG
AED_W_FIELDBEG
AED_W_ITEMBEG
AED_W_I
                                                                                                                                                                     designed.
                                                                               : REF $BBLOCK,
                                                                                                                                                                     Address of current ACE
                                                                                     REF $BBLOCK.
                                                                                                                                                                    First line segment of ACE
                                                                             : REF $BBLOCK,

: REF $BBLOCK,

: VECTOR[1, WORD],

: $BBLOCK [8],

: $BBLOCK [DSC$C_S_BLN],

: $BBLOCK [DSC$C_S_BLN],

: VECTOR [1, BYTE],
                                                                                                                                                                    Last line segment of ACE
Address of first line in display
                                                                                                                                                                    Size of current ACE text
                                                                                                                                                                    Deleted ACE line queue head ! Deleted line descr
                                                                                                                                                                                               Deleted word descr
                                                                                                                                                                    Deleted character
                                                                                     REF SBBLOCK
                                                                                                                                                                    Address of binary ACE ! Output line descr
                                                                              **BBLOCK [DSC*C_S_BLN],

VECTOR [1.WORD],

VECTOR [1.WORD],

VECTOR [1.WORD],

VECTOR [4.WORD],
                                                                                                                                                                     Channel for ACL I/O
                                                                                                                                                                     Terminal input channel
                                                                                                                                                                     Terminal output channel
                                                                                                                                                                     I/O status block
                                                                                                                                                                    Routine exit status
Curren: field number
                                                                             : VECTOR [1.BYTE], : Curren: field number
: VECTOR [1.WORD], : Beginning position of field
: VECTOR [1.WORD], : End position of field
: VECTOR [1.BYTE], : Current item number
: VECTOR [1.WORD], : Beginning position of item
: VECTOR [1.WORD], : End position of item
: VECTOR [1.WORD], : End position of item
: VECTOR [1.BYTE], : ACE type (for prompting)
: VECTOR [1.WORD], : RMS journaling flags from header
: $BBLOCK [512 + $BYTEOFFSET (LINE T_TEXT)],
: Input line segment storage
                          AED_T_CURLINE
                                                                                                                                                                    Input line segment storage
                                                                                                                                                              ! Total size of all ACE segments
                          AED_W_TOTALSIZE : VECTOR [1,WORD],
! Journal and recovery file RMS data structures.
                          JOURNAL_FAB
JOURNAL_NAM
                                                                               : $FAB_DECL, : $NAM_DECL,
                                                                                                                                                                    Journal file FAB
                                                                                                                                                                     Journal file NAM block
                                                                               : $RAB DECL.
                           JOURNAL_RAB
                                                                                                                                                                    Journal file RAB
                           JOURNAL_XABPRO : $XABPRO_DECL,
                                                                                                                                                                     Journal file PROtection XAB
                                                                             : VECTOR [10, BYTE],
                                                                                                                                                              ! Storage for journaled keys
                           JOURNAL_BUFFER
```

```
ACLEDTDEF.REQ;1

JOURNAL_INDEX,
RECOVER_FAB : $FAB_DECL,
RECOVER_NAM : $NAM_DECL,
RECOVER_RAB : $RAB_DECL,
RECOVER_RAB : $RAB_DECL,
RECOVER_BUFFER : VECTOR [10, BYTE],
RECOVER_INDEX;

PSECT OWN=$OWN$(CONCATENATE,ADDRESSING_MODE(WORD_RELATIVE),ALIGN(2));
```

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ACLEDIDEF . REQ: 1
! External routines
EXTERNAL ROUTINE
                      CLISGET VALUE : ADDRESSING MODE (GENERAL), ! Get qualifier value CLISPRESENT : ADDRESSING MODE (GENERAL), ! See if qualifier present LIBSFREE VM : ADDRESSING MODE (GENERAL), ! Release dynamic memory LIBSGET VM : ADDRESSING MODE (GENERAL), ! Allocate dynamic memory LIBSTPARSE : ADDRESSING MODE (GENERAL), ! General purpose parser SCRSDOWN SCROLL : ADDRESSING MODE (GENERAL), ! Scroll display down ! line SCRSERASE LINE : ADDRESSING MODE (GENERAL), ! Erase a line of the dis SCRSERASE PAGE : ADDRESSING MODE (GENERAL), ! Erase a portion of the SCRSET CORSOR : ADDRESSING MODE (GENERAL), ! Set display cursor posi SCRSSET SCROLL : ADDRESSING MODE (GENERAL), ! Set display scrolling r SCRSUP_SCROLL : ADDRESSING MODE (GENERAL); ! Scroll display up 1 line
                                                                                                                                                                              Get qualifier value
See if qualifier present
                                                                                                                                                                              Allocate dynamic memory
                                                                                                                                                                            Erase a line of the display
Erase a portion of the display
                                                                                                                                                                        Set display cursor position
Set display scrolling region
Scroll display up 1 line
! External error message definitions
EXTERNAL LITERAL
! fatal error.
                        AED$_OBJLOCKED.
! Recoverable errors.
                       AEDS_BADKEEP,
AEDS_LOCATERR,
AEDS_INIREADERR,
' Warning messages.
                      AEDS JOUWRITERR,
AEDS JOUOPENOUT,
AEDS JOUCLOSOUT,
AEDS RECREADERR,
AEDS RECOPENIN,
AEDS BADUIC,
AEDS BADUIC,
AEDS BADGRPMEM,
AEDS BADTYPE,
AEDS NOITEMSEL,
AEDS MUSTENTER,
AEDS INIOPENIN,
AEDS INICLOSIN,
AEDS DEFSYNTAX,
AEDS NODELETE,
AEDS NOMODIFY,
AEDS NOHIDDEN,
                        AEDS_NOHIDDEN
                       AEDS DUPLICATE.
                        AED$_NOCOMBINE,
                        AEDS_NODEFAULT,
! Informational messages.
                        AEDS_NOCTRLCHAR,
```

AEDS_NOTFOUND, AEDS_CONTROL_C,

! Success messages.

AEDS_ACLUPDATED, AEDS_NOCHANGE;

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